

# opHA 3 - Integration with other products

In this document, a description about the opHA 3 features when integrating with other products will be made.

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## NMIS 9

opHA will synchronise all the NMIS 9 database information. That means:

- Log files from the pollers will not be synchronise
- RRD files will not be moved

The functional differences between a primary, poller and standalone server are as follows:

### Standalone Server

- It will poll all the local nodes
- All the local nodes can be managed locally.

### Primary Server

- It can poll local nodes
- It will have information about the remote nodes
- It will create network metrics for local and remove nodes
- Just Local nodes can be edited
- It will redirect to the poller to read information for remote nodes

The screenshot displays the NMIS 9.2.3 web interface. The top navigation bar includes 'Network Status', 'Network Performance', 'Network Tools', 'Reports', 'Service Desk', 'Setup', 'System', and 'Windows Help'. The main content area is divided into several sections:

- Metrics:** Shows 8hr Summary with values for Metric (89%), Reachability (89%), Interface Avail (99%), Health (85%), and Response Time (29ms).
- Network Metrics and Health:** A line chart showing 'Axtell' status over a 2-day period, with a note 'Axtell is managed by server full'.
- Node Details - Axtell:** A table with tabs for 'Node', 'Interfaces', 'active\_intf', 'events', 'outage', 'Diagnostic', 'contact', and 'location'. The table shows details for node 'AXTELL\_5K\_1' with IP 10.152.0.39, status 'reachable', and various performance metrics.
- KPI Scores:** A table showing scores for Reachability (10/10), Availability (10/10), Response (20/20), CPU (20/20), MEM (10/10), and Interface (30/30).
- Key Performance Indicators:** A bar chart showing various KPIs over a 2-day period, including Reachability, Availability, Response, CPU, MEM, Interface, SWAP, and Disk KPIs.
- Overall Reachability, Availability and Health:** A line chart showing % Health over a 2-day period, with metrics for Health (Avg 99.826%), Reachability (Avg 99.826%), Availability (Avg 99.999%), and Ping\_loss (Avg 0.288%).
- Response Time in milliseconds:** A line chart showing response time over a 2-day period, with metrics for Response msec (Avg 40.64 msec, Max 114.05 msec).

Remote node is redirected from the primary.

## Poller Server

- It will poll local nodes.
- Nodes must be edited from primary server.
- All the information can be read from the poller.

Network NMIS 9.2.3 - fulla NMIS Modules Mon Sep 06 18:40:33 2021 AEST User

Network NMIS Nodes (devices) Mon 9:40

This peer is a poller. Configuration must be set in the master.

Table Nodes										
Name	UUID	Host Name/IP Address	Fallback Host Name/IP Address	Group	Customer	Business Service	Display Name	Notes	Location	Polling Policy
abc-cust1	251b85ed-6ab7-11e8-8a70-ac79be6c7f0d	10.248.255.16		ABC_Corp	Opmantek			vyos-ce1	Los Angeles	default
Adtran-TA5000	ed4469f7-7e43-57d9-a0de-77093f792a80	10.152.0.39		SNMPSIM	Opmantek	eMail			default	default
amor	488c4434-ffc7-11e6-a1bd-92267129d77a	amor.opmantek.com		Branches		Web Page				default
Angmar	16a60f09-0fdc-5469-bffe-e64ecfc237cf	138.68.11.77		East_Net_Dist					HeadOffice	quicklime
apc-ups	324e43c3-3c23-504d-b0fa-2786b8223e4b	192.168.88.250		DataCentre	onecustomer				Gold Coast	default
AroValley	8c8beeb9-4283-5875-98fd-924a97e9018c	210.54.38.168		Branches	3costumers			James moved house.	Aro	default

Node configuration view in the poller: Not possible edition.

## Summary

Action	Standalone	Primary	Poller
View local Nodes	✓	✓	✓
View Remote Nodes	✓	✓	✗
Edit Local Nodes	✓	✓	✗
Edit remote Nodes	✗	✓	✗
Poll Local Nodes	✓	✓	✓
Poll Remote Nodes	✗	✗	✗

## opHA

The views from the poller and the primary will change.

## Standalone Server

We will access the main screen, just the local information will be available.

## Primary Server

We will see all the actions and all the pollers:

opHA 3.3.1 Views Events Config System

Home  
opHA 3 Home

opHA Menu

- Peers  
Discover and manage peers
- Configuration  
Edit remote configuration files
- Log  
Peers last activity

Pollers

poller-nine	
✓	
Last pull	Mon Sep 6 08:45:08 2021
Pull Status	Success
Nodes	522
DB status	✓
opchartsd	Error
opevents	OK
opconfigd	OK
nmis9d	OK
omkd	OK

fulla	
✓	
Last pull	Mon Sep 6 08:45:06 2021
Pull Status	Success
Nodes	76
DB status	✓
opchartsd	Error
opevents	Error
opconfigd	Error
nmis9d	OK
omkd	OK

## Poller Server

We will see a message that indicate us that it is a poller:

opHA 3.3.1 Views Reports Events Config

Home  
opHA 3 Home

This is a poller server managed by **master-nine**.  
 The opHA configuration is not available in a poller.  
 Central configuration and data management should be done from the primary server **master-nine**.  
 Further information can be found in the [documentation](#).

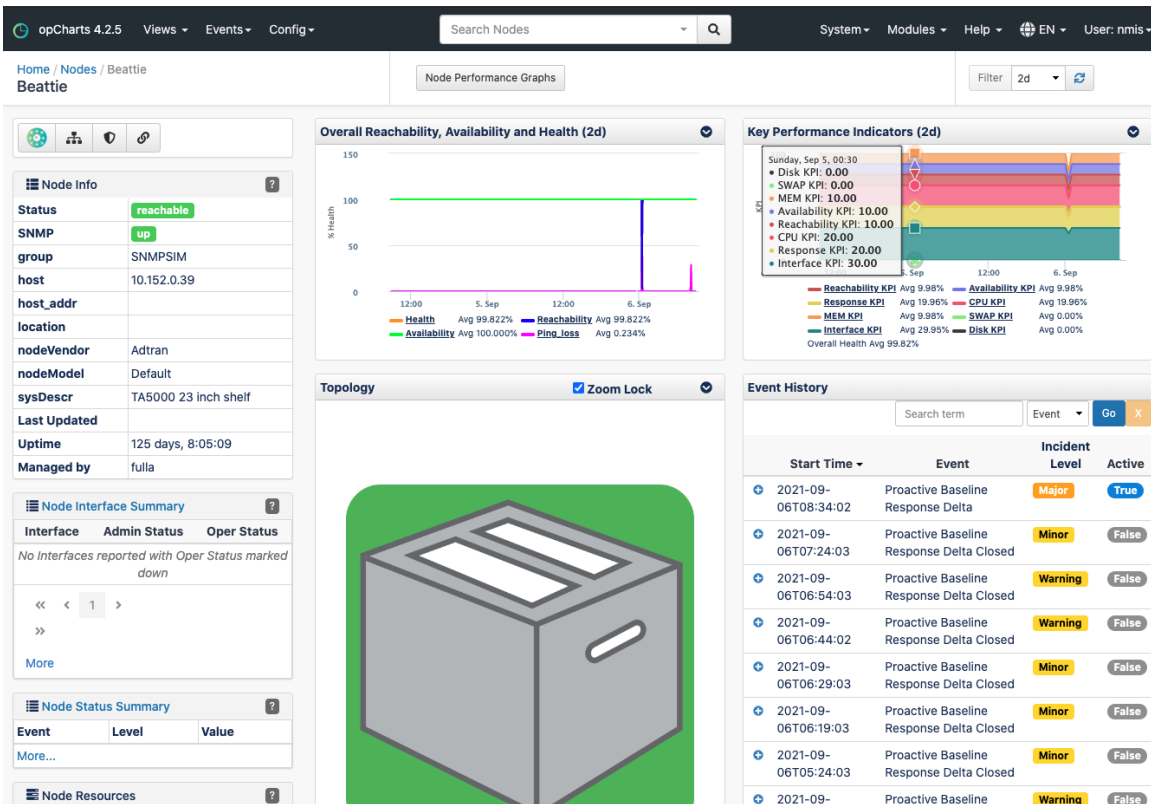
✓ Last pull: Mon Sep 6 08:45:07 2021

## opCharts

As opCharts operates with NMIS 9 data, we will be able to see and use the remote nodes as local nodes from opCharts, and use them in Charts or maps.

We just need:

- opHA keeps synchronising the data in order to be updated.
- The nodes should be activated for opCharts in order to see them.
- Have opHA urls [configured correctly](#).



Remote node from the primary.

As RRD data is not synchronised, opCharts makes a remote call to visualise the graph information. If you cannot see the graphs, please review [this information](#).

## opEvents

opHA just synchronises the information collected by NMIS9. But there are different approaches regarding opEvents data integration between servers:

- Using the [opEvents API](#)
- Send events to the primary server [using syslog](#).

Depending on the followed approach, the opEvents rules can be set up in the poller or the primary.

They should be set up in the primary in case of using the syslog approach.

If we are using the API they can be set up in the poller or the primary. It is a common approach to just send the important events to the primary.

## opConfig

opHA does not provide integration at the moment for opConfig.

opConfig will work just with local nodes.

## opReports

opHA does not provide integration at the moment for opReports.

As opReports uses rrd data and this is not synchronised.

The reports must be created from the pollers, and use local data. Then the reports can be [synchronised with the primary server](#).